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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/653,034	08/29/2003	James E. King	5681-71200	1532	
35690	7590 06/13/2005		EXAMINER		
MEYERTON	MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C.			CHERRY, STEPHEN J	
P.O. BOX 398 AUSTIN, TX	3 . 78767-0398		ART UNIT PAPER NUMBER		
, , , , , , , , , , , , , , , , , , , ,			2863		
			DATE MAILED: 06/13/200	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/653,034	KING ET AL.				
Office Action Summary	Examiner	Art Unit				
	Stephen J. Cherry	2863				
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet w	ith the correspondence address	S			
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT  - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communicat.  - If the period for reply specified above is less than thirty (30) days.  - If NO period for reply is specified above, the maximum statutory.  - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	CION.  CFR 1.136(a). In no event, however, may a continuous.  In a continuous, a reply within the statutory minimum of thir period will apply and will expire SIX (6) MON a statute, cause the application to become Alexandre.	eply be timely filed  ty (30) days will be considered timely.  ITHS from the mailing date of this commun  BANDONED (35 U.S.C. § 133).	ication.			
Status						
1) Responsive to communication(s) filed on	14 March 2005.					
	This action is non-final.					
3) Since this application is in condition for a						
closed in accordance with the practice u	nder <i>Ex parte Quayle</i> , 1935 C.D	). 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-35 is/are pending in the applic	cation.					
4a) Of the above claim(s) is/are wi	thdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-9, 12-22, 25, 26 and 29-35</u> is/ai	re rejected.					
7) Claim(s) 10,11,23,24,27 and 28 is/are of	ejected to.					
8) Claim(s) are subject to restriction	and/or election requirement.					
Application Papers						
9) The specification is objected to by the Ex	aminer.					
10)⊠ The drawing(s) filed on <u>01 June 2004</u> is/a	ıre: a)⊠ accepted or b)⊡ obje	cted to by the Examiner.	,			
Applicant may not request that any objection	to the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the	correction is required if the drawing	(s) is objected to. See 37 CFR 1.	121(d).			
11) The oath or declaration is objected to by	the Examiner. Note the attache	d Office Action or form PTO-1	52.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:  1. Certified copies of the priority documents of the priority documents.  2. Certified copies of the priority documents.  3. Copies of the certified copies of the	uments have been received. uments have been received in A	opplication No	е			
application from the International B	•	Toom of military transfer orang				
* See the attached detailed Office action for		received.				
Attachment(s)	<del></del>					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-9		Summary (PTO-413) s)/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/Paper No(s)/Mail Date 3-14-2005.	,	nformal Patent Application (PTO-152)	•			

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#### **DETAILED ACTION**

#### Specification

The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-9, 12, 14-22, 25, 29-32, and 34-35 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent 6,829,725 to Gurumoorthy et al.

Claim 1 recites, as disclosed by Gurumoorthy:

1. A method of monitoring the health of a system module in a system during state transitioning, wherein the system further includes a monitor module operationally connected to the system module ('725, col. 6, line 38, "watchdog timer" part of system, 20), the method comprising: - the system module outputting a status signal for predetermined system status

points during state transitioning of the system module ('725, col. 6, line 21 and 42, "attempt to launch operating system", and "operating successfully launches"); and - the monitor module being operable to start a timer on detecting a first status signal and resetting the timer on detecting a subsequent status signal, whereby the timer is operable to indicate a failed transitioning of the system module in the event that the timer is not reset within a determined period ('725, col. 6, line 20, and fig. 3, 212).

Claim 2 recites, as disclosed by Gurumoorthy:

2. The method of claim 1, wherein the state transitioning comprises at least one

of starting the system module ('725, col. 6, line 20) and shutting down the system module.

Claim 3 recites, as disclosed by Gurumoorthy:

3. The method of claim 1, wherein a signal is output by the system module for at

least one of the following system status points, namely: at power on self test start; at power on self test end; at power on or reset; at an end of initial hardware power up, on starting booting ('725, col. 6, line 20), on ending booting, on a shutdown or panic power-off and on a system reset.

Claim 4 recites, as disclosed by Gurumoorthy:

4. The method of claim 1, wherein the timer is reset on detecting each of a set of

successive status signals, whereby the timer is operable to indicate a failed transitioning of the system module in the event that the timer is not reset within a respective determined period for each of a plurality of pairs of successive status signals ('725, col. 6, line 24)

Claim 5 recites, as disclosed by Gurumoorthy:

5. The method of claim 1, wherein an initial period for the timer is determined to exceed an expected maximum time to a subsequent status signal

assuming a healthy system module ('725, col. 6, line 20, and fig. 3).

Claim 6 recites, as disclosed by Gurumoorthy:

6. The method of claim 5, wherein the monitor module is operable to set the configuration of the system module, and wherein the monitor module is operable to use information about the configuration to compute a determined period to be applied for the timer ('725, col. 6, line 24, module selects operating system, and corresponding times).

Claim 7 recites, as disclosed by Gurumoorthy:

7. The method of claim 5, wherein the system module is operable to inform the monitor module of a determined period to be applied for the timer ('725, col. 6, line 24).

Claim 8 recites, as disclosed by Gurumoorthy:

8. The method of claim 5, wherein the system module is operable to provide the

monitor module with details of the configuration of the system module, and wherein the monitor module is operable to use the configuration information to compute a determined period to be applied for the timer ('725, col. 6, line 24).

Claim 9 recites, as disclosed by Gurumoorthy:

9. The method of claim 5, wherein the monitor module is operable to interrogate the system module to determine details of the configuration of the system module, and wherein the monitor module is operable to use the configuration information to compute a determined period to be applied for the timer ('725, col. 6, line 20, monitor interagates system for status of OS load, status determines subsequent OS load and corresponding time).

Claim 12 recites, as disclosed by Gurumoorthy:

12. The method of claim 1, wherein the monitor module is a service processor ('725, col. 6, line 20, monitor processes startup routine).

Claim 14 recites, as disclosed by Gurumoorthy:

14. A computer system configured to receive a system module and comprising a

monitor module operationally to be connected to the system module ('725, col. 6, line 38, "watchdog timer" part of system, 20), wherein: - the monitor module is operable to start a timer on detecting a first status signal output by a received system module at one of predetermined system status

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points during state transitioning of the system module; and - the monitor module is operable to reset the timer on detecting a subsequent status signal output by a received system module at another predetermined system status point during state transitioning of the system module, whereby the timer is operable to indicate a failed transitioning of the system module in the event that the timer is not reset within a determined period ('725, col. 6, line 20, and fig. 3, 212).

Claim 15 recites, as disclosed by Gurumoorthy:

15. The computer system of claim 14, wherein the state transitioning comprises at

least one of starting the system module ('725, col. 6, line 20) and shutting down the system module.

Claim 16 recites, as disclosed by Gurumoorthy:

16. The computer system of claim 14, wherein the monitor module is responsive to signals output by a received system module for at least one of the following system status points, namely: at power on self test start; at power on self test end; at power on or reset; at an end of initial hardware power up, on starting booting ('725, col. 6, line 20), on ending booting, on a shutdown or panic power-off and on a system reset.

Claim 17 recites, as disclosed by Gurumoorthy:

17. The computer system of claim 14, wherein the timer is operable to be reset on detecting each of a set of subsequent status signals, whereby the

timer is operable to indicate a failed transitioning of the system module in the event that the timer is not reset within a respective determined period for each of a plurality of pairs of successive status signals ('725, col. 6, line 24)

Claim 18 recites, as disclosed by Gurumoorthy:

18. The computer system of claim 14, wherein an initial period for the timer is determined to exceed an expected maximum time to a subsequent status signal assuming a healthy system module ('725, col. 6, line 20, and fig. 3).

Claim 19 recites, as disclosed by Gurumoorthy:

19. The computer system of claim 18, wherein the monitor module is operable to set the configuration of the system module, and wherein the monitor module is operable to use information about the configuration to compute a determined period to be applied for the timer ('725, col. 6, line 24, module selects operating system, and corresponding times).

Claim 20 recites, as disclosed by Gurumoorthy:

20. The computer system of claim 18, wherein the monitor module is responsive to a system module providing a determined period to be applied for the timer ('725, col. 6, line 24).

Claim 21 recites, as disclosed by Gurumoorthy:

21. The computer system of claim 18, wherein the monitor module is responsive to a system module providing details of the configuration of the

system module, and wherein the monitor module is operable to use the configuration information to compute a determined period to be applied for the timer ('725, col. 6, line 24).

Claim 22 recites, as disclosed by Gurumoorthy:

22. The computer system of claim 18, wherein the monitor module is operable to interrogate the system module to determine details of the configuration of the system module, and wherein the monitor module is operable to use the

configuration information to compute a determined period to be applied for the timer ('725, col. 6, line 20, monitor interagates system for status of OS load, status determines subsequent OS load and corresponding time).

Claim 25 recites, as disclosed by Gurumoorthy:

- 25. The computer system of claim 14, wherein the monitor module is a service processor ('725, col. 6, line 20, monitor processes startup routine).

  Claim 29 recites, as disclosed by Gurumoorthy:
  - 29. A system module for a computer system configured to receive said system module and comprising a monitor module to be operationally connected to the system module, the system module being operable to output status signals at predetermined system status points during state transitioning of the system module, whereby the monitor module is operable to set a time on receipt of a first such status signal and to reset the timer on detecting a subsequent status signal, and whereby the timer

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is operable to indicate a failed transitioning of the system module in the event that the timer is not reset within a determined period ('725, col. 6, line 20, and fig. 3, 212).

Claim 30 recites, as disclosed by Gurumoorthy:

30. The system module of claim 29, wherein the state transitioning comprises at least one of starting the system module and shutting down the system module ('725, col. 6, line 20).

Claim 31 recites, as disclosed by Gurumoorthy:

31. The system module of claim 29, wherein the system module is operable to output a status signal for at least one of the following system status points, namely: at power on self test start; at power on self test end; at power on. or reset; at an end of initial hardware power up, on starting booting ('725, col. 6, line 20), on ending booting, on a shutdown or panic power-off and on a system reset.

Claim 32 recites, as disclosed by Gurumoorthy:

32. The system module of claim 29, wherein the system module is operable to provide the monitor module with an indication of the determined period to be applied for the timer ('725, col. 6, line 24).

Claim 34 recites, as disclosed by Gurumoorthy:

34. A carrier medium carrying instructions for monitoring the health of a system module in a system during power transitioning, wherein a monitor module is operationally connected to the system module and the system

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module is operable to output a status signal at predetermined system status points during at least one of starting the system module and shutting down the system module, the instructions being operable to control the monitor module:

- to start a timer on detecting a first status signal; and
- to reset the timer on detecting a subsequent status signal, whereby the timer is operable to indicate a failed transitioning of the system module in the event that the timer is not reset within a determined period ('725, col.
- 6, line 20 and fig. 3, the carrier is 10 and 12 indicated in fig. 1).

Claim 35 recites, as disclosed by Gurumoorthy:

- 35. A computer system comprising a system module and a monitor module operationally connected to the system module, wherein:
- the system module comprises means for outputting a status signal for predetermined system status points during state transitioning of the system module; and
- the monitor module comprises means for start a timer on detecting a first status signal and for resetting the timer on detecting a subsequent status signal, whereby the timer is operable to indicate a failed transitioning of the system module in the event that the timer is not reset within a determined period ('725, col. 6, line 20 and fig. 3).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 13, 26, and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6,829,725 to Gurumoorthy et al in view of U.S. Patent 6,688,965 to Crippen et al.

The claims recite, as disclosed by Crippen:

the system module outputting a status signal for predetermined system status points during state transitioning of the system module ('725, col. 6, line 21 and 42, "attempt to launch operating system", and "operating successfully launches"); and - the monitor module being operable to start a timer on detecting a first status signal and resetting the timer on detecting a subsequent status signal, whereby the timer is operable to indicate a failed transitioning of the system module in the event that the timer is not reset within a determined period ('725, col. 6, line 20, and fig. 3, 212), wherein the monitor module is a service processor ('725, col. 6, line 20, monitor processes startup routine).

monitor module operationally to be connected to the system module ('725, col. 6, line 38, "watchdog timer" part of system, 20), wherein: - the monitor module is operable to start a timer on detecting a first status signal output

by a received system module at one of predetermined system status points during state transitioning of the system module; and - the monitor module is operable to reset the timer on detecting a subsequent status signal output by a received system module at another predetermined system status point during state transitioning of the system module, whereby the timer is operable to indicate a failed transitioning of the system module in the event that the timer is not reset within a determined period ('725, col. 6, line 20, and fig. 3, 212); wherein the monitor module is a service processor ('725, col. 6, line 20, monitor processes startup routine).

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a monitor module to be operationally connected to the system module, the system module being operable to output status signals at predetermined system status points during state transitioning of the system module, whereby the monitor module is operable to set a time on receipt of a first such status signal and to reset the timer on detecting a subsequent status signal, and whereby the timer is operable to indicate a failed transitioning of the system module in the event that the timer is not reset within a determined period ('725, col. 6, line 20, and fig. 3, 212).

However, Gurumoorthy does not teach the use of blade systems.

The claims further recite, as disclosed by Crippen, a rack mountable blade system ('965, fig. 1).

Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the blade system of Crippen with the invention of Gurumoorthy to allow high reliability operation ('965, col. 1, line 12).

## Allowable Subject Matter

Claims 10-11, 23-24, and 27-28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

Claim 10 recites, "wherein the monitor module is operable to record a time for a given pair of status signals on a given initiation of the system and to adapt the determined period for a subsequent system initiation". This feature in combination with the remaining claimed structure avoids the prior art of record.

Claim 11 recites, "wherein the monitor module is operable to record a time between a given pair of status signals on a given initiation of the system and to employ a determined period equal to a multiple of the actual time between a given pair of status signals for a subsequent system initiation". This feature in combination with the remaining claimed structure avoids the prior art of record.

Claim 23 recites, "wherein the monitor module is operable to record a time for a given pair of status signals on a given initiation of the system and to adapt the determined period for a subsequent system initiation". This feature in combination with the remaining claimed structure avoids the prior art of record.

Claim 24 recites, "wherein the monitor module is operable to record a time between a given pair of status signals on a given initiation of the system and to employ a determined period equal to a multiple of the actual time between a given pair of status signals for a subsequent system initiation". This feature in combination with the remaining claimed structure avoids the prior art of record.

# Response to Arguments

Applicant's arguments filed 3-14-2005 have been fully considered but they are not persuasive.

Regarding claims 1, 14, 29, 34 and 35, applicant argues that Gurumoorthy does not teach a monitor module which is operable to start and reset the timer; however, '725, figure 3, and col. 5, line 41, depicts such a monitor module, which at block 210 sets the watchdog timer for each iteration of the depicted loop, wherein block 220 is looped back to block 202. Thus, a second iteration of the depicted flowchart would involve a resetting of the watchdog timer.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., the OS loader or operating system outputs status signals for predetermined system

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status points during state transitioning) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). However, Gurumoorthy does disclose a system that examines such status signals in figure 3 block 212. The condition of operating system successfully loading is monitored in each successive iteration instruction 212 in the disclosed programming loop, thereby demonstrating claimed first status signal and subsequent status signal.

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen J. Cherry whose telephone number is (571) 272-2272. The examiner can normally be reached on M-F 8:00-4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on (571) 272-2269. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SJC

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